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## <u>Claims</u>

1. A method of reducing mammalian androgenstimulated hair growth, which comprises

selecting an area of skin from which hair grows in response to androgen-stimulation from which reduced hair growth is desired; and

applying to said area of skin a dermatologically acceptable composition comprising a compound that induces or activates a UDP-glucouronosyltransferase or a sulfotransferase, wherein the compound is present in the composition in an amount effective to reduce hair growth.

2. A method of increasing mammalian hair growth, which comprises

selecting an area of skin from which hair grows that does not grow in response to androgens from which increased hair growth is desired; and

applying to said area of skin a dermatologically accepted composition comprising a compound that induces or activates a UDP-glucouronosyltransferase or a sulfotransferase, wherein the compound is present in the composition in an amount effective to increase hair growth.

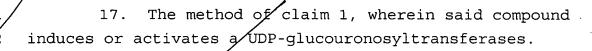
- 1 3. The method of claim 1 or 2, wherein said 2 compound comprises ethoxyquin.
- 1 4. The method of claim 1—or—2; wherein said 2 compound comprises 5,7-dihydroxy-4'-methoxyflavone.
- 1 5. The method of claim 1 or 2, wherein said 2 compound comprises butylhydroxyanisole.

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- 1 6. The method of claim 1 or 2, wherein said 2 compound comprises phenobarbital.
- 7. The method of claim 1 or 2, wherein said compound comprises naringenin.
- 1 8. The method of claim 1 or 2, wherein said 2 compound comprises butylhydroxytoluene.
- b 1 9. The method of claim 1  $\frac{1}{2}$ , wherein said 2 compound comprises flavone.
  - 1 10. The method of claim 1 or 2, wherein said 2 compound comprises tioconazole.
  - 1 11. The method of claim 1, wherein said compound 2 comprises trans-1,2-bis(2-pyridyl)ethylene.
  - 1 12. The method of claim 1 or 2, wherein said 2 compound comprises 7,4'-isoflavandiol.
  - 1 13. The method of claim 1 or 2, wherein said 2 compound comprises galangin.
- 1 14. The method of claim 1 or 2, wherein said
  2 compound comprises 7-hydroxy-4'-methoxyisoflavone.
- 1 15. The method of claim 1 -or-2, wherein said
  2 compound comprises 5,4'-dihydroxy-7-methoxyisoflavone.
  - 1 16. The method of claim 1 or 2, wherein said 2 compound comprises daidzein.



- 1 18. The method of claim 2, wherein said compound 2 induces or activates a sulfotransferase.
- 1 19. The method of claim 1 or 2, wherein said 2 androgen comprises testosterone.

1 20. The method of claim 1 or 2, wherein the 2 concentration of said compound in said composition is 3 between 0.1% and 30%.

- 1 21. The method of claim 1 or 2, wherein the 2 composition provides a reduction in hair growth of at least 3 15% when tested in the Golden Syrian hamster assay.
- 1 22. The method of claim 1 or 2, wherein the 2 composition provides a reduction in hair growth of at least 3 40% when tested in the Golden Syrian hamster assay.
- 1 23. The method of claim 1 or 2, wherein said mammal 2 is a human.
- 1 24. The method of claim 1, wherein the area of skin 2 is on the face of the human.
- 1 25. The method of claim 24, wherein said human is a woman suffering from hirsutism.
- 1 26. The method of claim 2, wherein the area of skin 2 is on the scalp of a human.

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A method of reducing mammalian androgenstimulated hair growth, which comprises

selecting an area of skin from which hair grows in response to androgen-stimuzation from which reduced hair growth is desired; and

applying to said area of skin a dermatologically acceptable composition comprising a compound that induces or activates the conjugation of an androgen that stimulates androgen-stimulated hair growth to produce a conjugate of the androgen, wherein the compound is present in the composition in an amount effective to reduce the hair 12 \_growth.

- The method of claim 27, wherein the area of 1 2 skin is on the face of a human.
  - A method of increasing mammalian hair growth, which comprises

selecting an area of skin from which hair does not grow in response to androgens from which increased hair growth is desired; and

applying to said area of skin, a dermatologically acceptable composition comprising a compound that induces or activates the conjugation of an androgen that retards hair growth to produce a conjugate of the androgen, wherein the compound is present in the composition in an amount effective to increase the hair growth.

1 30. The method of claim 29, wherein the area of 2 skin includes the scalp of a human.

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- 1 31. The method of claim 27 or 29, wherein the 2 compound is an inducer or activator of an androgen 3 conjugation enzyme.
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- 1 32. The method to claim 31, wherein the androgen comprises a testosterone.
- 1 33. The method of claim 31, wherein the androgen comprises dihydrotestosterone.
- 34. The method of claim 31, wherein the androgen comprises an androgen selected from the group consisting of androstenedione, androstenediols, and dehydroepiandrosterone.
  - 35. A method of reducing mammalian androgenstimulated hair growth, which comprises
    selecting an area of skin from which hair grows in
    response to androgen-stimulation from which reduced hair
    growth is desired; and
- applying to said area of skin a dermatologically
  acceptable composition comprising a compound that induces or
  activates the conversion of testosterone to a less active
  metabolite, wherein the compound is present in the
  composition in an amount effective to reduce the hair growth
  from the area of skin.
- 1 36. The method of claim 35, wherein the area of 2 skin is on the face of a human.

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1	37	. The	method	d of	claim	35,	whe	rein	the	less	activ	е
2	metabolit	e compr	ises a	com	pound	that	is	more	wat	er so	luble	
3	than testosterone.											

- 38. A method of increasing hair growth from the 1 scalp of a human, which comprises 2
- selecting an area of the scalp of a human from which 3 increase hair growth is desired; and 4
- applying to the area of the scalp a dermatologically 5 acceptable composition comprising a compound that induces or 6 7 activates the conversion of testosterone to a less active metabolite, wherein the compound is present in the 8 composition in an amount effective to increase hair growth 9 from the area of the scalp. 10
  - The method of claim 38, wherein the less active 1 39. metabolite comprises a compound that is more water soluble than testosterone.